



(43) International Publication Date 11 April 2002 (11.04.2002)

PCT

(10) International Publication Number WO 02/28274 A1

(51) International Patent Classification7:

A61B 5/00

- (21) International Application Number: PCT/US01/26642
- (22) International Filing Date: 27 August 2001 (27.08.2001)
- (25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data:

138884

5 October 2000 (05.10.2000) IL

- (71) Applicant (for all designated States except US): CYBRO MEDICAL LTD. [IL/IL]; Matam Building 30, 31905 Haifa (IL).
- (72) Inventor; and
- (75) Inventor/Applicant (for US only): MENDELSON, Yizhak [US/US]; 31 Whisper Drive, Worcester, MA 01609 (US).
- (74) Agents: YEE, James, R. et al.; Howard & Howard Attorneys, P.C., Suite 101, The Pinehurst Office Center, 39400 Woodward Avenue, Bloomfield Hills, MI 48304-5151 (US).

- (81) Designated States (national): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW.
- (84) Designated States (regional): ARIPO patent (GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published:

- with international search report
- before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(57) Abstract: A sensor for use in an optical measurement device and a method for non-invasive measurement of a blood parameter. The sensor includes sensor housing, a source of radiation coupled to the housing, and a detector assembly coupled to the housing. The source of radiation is adapted to emit radiation at predetermined frequencies. The detector assembly is adapted to detect reflected radiation at least one predetermined frequency and to generate respective signals. The signals are use to determine the parameter of the blood.